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AUTHORS: Vanin, V. S., Titov, V. K.

TITLE: Steel cementation in liquid organic media

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 18, 1962, 20,
abstract 18B124 (In collection: "Metallovedeniye i term.
obrabotka", Moscow - Kiyev, Mashgiz 1961, 225 - 228)

TEXT: An experimental investigation was carried out to check the assumption on the specific effect of high-frequency current upon the acceleration of diffusion saturation in cementation and nitriding in liquid media. Simultaneously the effect of cementation conditions on the depth of the layer obtained was studied and the efficiency of using various organic media was compared. The results obtained show that the rate of cementation and nitriding processes was equal in both the use of heating by high-frequency current and passing commercial-frequency and direct current through the specimens. Benzene and ethyl alcohol were found to be the liquids most suitable for cementation.

[Abstracter's note: Complete translation]

V. Dusman

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